

### ABSTRACT

The present invention provides for a satellite system that will permit for signals of two different frequencies and polarities to be transmitted simultaneously over the same cable. The system will accommodate two different polarity commands from two or more different sources at the same time. The satellite system of the present invention includes a satellite dish or antenna that receives signals. These received signals are transmitted to a converter. A head-in frequency processor is coupled to the converter. This head-in frequency processor enables the different frequencies and polarities to be transmitted simultaneously via a single coaxial cable. This single coaxial cable is coupled to a head-out receiver processor which is connected to a receiver. This receiver is connected to a TV or other source. This unique design and configuration provides for a system that will permit satellite broadcast reception in locations that are not in the line-of-sight path of the satellites. Accordingly, the satellite system of the present invention will permit satellite broadcasting to high-rise buildings, hospitals, condominiums, schools, and the like.